



THERMAL VACUUM TEST SYSTEMS - TORONTVAC™ 800

Thermal Vacuum Test Systems - ToronTVAC™ 800

ToronTVAC™ 800 is a thermal vacuum (TVAC) test system designed to assess the reliability and performance of individual units under simulated space-like conditions. The chamber supports controlled low pressure while the heat sink and cold plate provide a stable thermal interface for thermal cycling and functional checks. This configuration fits component-level programs that need repeatable temperature control and dependable vacuum performance.

It supports lab workflows where setup efficiency, consistent results, and clear operating parameters matter. TVAC conditions help reveal temperature-driven drift, thermal interface issues, and vacuum-related behaviors before deployment.

APPLICATIONS

Thermal Vacuum Test Systems - ToronTVAC™ 800 Applications

- Satellite component verification for unit-level functional stability in TVAC conditions
- Thermal cycling for electronics modules, control units, and power subassemblies
- Thermal balance studies for thermal interface evaluation and heat transfer behavior
- Sensor and payload subassembly screening for temperature-related drift or instability
- Reliability screening and failure analysis under vacuum-temperature stress profiles



FEATURES

Thermal Vacuum Test Systems - ToronTVAC™ 800 Key Features

- S30408 stainless steel chamber construction supports corrosion resistance and long service life
- TVAC operating pressure capability supports space-simulation style evaluations
- Wide thermal range for heat sink and cold plate supports cycling and thermal stress testing
- Tight heat sink temperature uniformity supports consistent thermal exposure across the interface
- Defined temperature change rate supports repeatable cycling profiles during TVAC testing

TECHNICAL SPECIFICATIONS

Thermal Vacuum Test Systems - ToronTVAC™ 800 Technical Specification

Specification	Details
Chamber Dimensions	φ 800 mm × 1000 mm
Heat Sink Dimensions	φ 600 mm × 1000 mm
Cold Plate Dimensions	L 800 mm × W 400 mm
Operating Pressure	≤ 1.3 × 10 ⁻³ Pa
Ultimate Pressure	≤ 5.0 × 10 ⁻⁵ Pa
Heat Sink and Cold Plate Temperature Range	-70°C to +150°C
Heat Sink Temperature Uniformity	≤ ±2°C
Rate of Temperature Change	≥ 1.5°C/min



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 

Phone: +971 488 19252
Email: me@torontech.com

